

SEBESTYEN, Karoly, dr.; MORVAI, Laszlo; RARAS, Gyula; KARAS, Gyulane

Tests on the quantitative appraisal of water prospecting borings.
Geofiz kozl 13 no.1:123-134 '64.

1. Editorial Board Member, "Geofizikai Kozlemenyek" (for
Sebestyen).

LOMAKINA, L.N.; RARASEVICH, N.I.

Studying the analytical properties of 2-mercaptobenzimidazole
(microdetermination of platinum, palladium, rhodium, and iridium
by means of 2-mercaptobenzimidazole). Vest.Mosk.un.Ser.mat.,mekh.,
astron.,fiz.,khim. 13 no.6:149-155 '58. (MIRA 12:4)

1. Kafedra analiticheskoy khimii Moskovskogo gosudarstvennogo
universiteta.
(Benzimidazolethiol) (Metals--Analysis)

RARASEVICH, N.I.; ZHELEZNOVA, A.A.; SEMENENKO, K.A.

Spectrographic determination of admixture of tantalum in niobium pentoxide. Vest.Mosk.un. 12 no.1:156-158 '57. (MLRA 10:8)

1.Moskovskiy universitet, Kafedra analiticheskoy khimi. (Niobium oxides) (Tantalum)

RARDIN, I. P.

B.M.I.

1734

I. P. Rardin, The Outlook for the Use of
Oxygen in the Blast Furnace. BULLETIN
DE L'ACADEMIE DES SCIENCES DE L'URSS,
Classe des Sci. Techn., 1946, No. 10,
pp. 1796-1800; 6500 words.

3/058/61/000/008/029/044
AC56/A101

24,7000

AUTHORS: Kondratenko, V. M., Rarenko, I. M.

TITLE: Exciton decay on an impurity atom with formation of a dyad and a hole

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1951, 240-241, abstract 8E194
("Nauchn.yezhegodnik za 1957 g. Chernovitsk. un-t". Chernovtsy,
1958, 471-472)

TEXT: On the basis of the Shubin-Vonkovskiy model of the crystal, the authors examined exciton decay with formation of current states in atomic semiconductors. They calculated the effective cross section of exciton decay on an impurity atom. The value of the effective cross section depends substantially on the charge of the impurity atom.

Z. Nazayev

[Abstracter's note: Complete translation]

Card 1/1

Thermomagnetic and magnetic properties of PbSe. Ya. S. Budzhak.

Certain anomalous properties of p-type PbTe. P. M. Starik,
P. I. Voronyuk.

Galvanomagnetic and thermomagnetic effects in HgTe. N. V. Gavaleshko.

Production and electrical properties of HgSe and the system HgSe-HgTe.
I. M. Rarenko, V. M. Nikitenko.

Electrical properties of In_2Se . I. M. Stakhira, A. N. Borets.

Report presented at the 3rd National Conference on Semiconductor Compounds,
Kishinev, 16-21 Sept 1963

Magnetic properties of semiconductors. K. D. Tovstyuk.

- This presentation consisted of the following papers:

• Anisotropy of susceptibility of semiconductors. K. D. Tovstyuk, E. I. Slynko, I. M. Stakira, O. K. Boretz.

Magnetic and thermomagnetic properties of HgTe, PbTe, HgSe, PbSe. K. D. Tovstyuk, M. P. Gavaleshko, Ya. S. Budzhak, P. M. Starik, P. I. Voronyuk.

Magnetic susceptibility of CdTe and ZnTe. I. V. Potykevich, A. V. Savitskiy.

Magnetic properties of the system HgTe-CdTe. K. D. Tovstyuk, I. M. Rarenko, I. V. Potykevich.

Anisotropy of the thermal conductivity of CdSb. I. M. Pilat, L. I. Anatychuk.

Electrical, magnetic, and optical properties of the system In₂Te₃-CdTe. I. V. Potykevich, A. I. Belyayev, S. V. Chupurs.

Properties of crystals of CdSb doped with elements of groups IV and VI. S. M. Gulyay.

POTYKEVICH, I.V. [Potykevich, I.V.]; GAVRILOVSKAYA, I.V. [Gavrilovskaya, I.V.]; RAJNKO, I.M.

Magnetic susceptibility of the system CdTe - HgTe. Ukr. fiz. zhurn.
8 no.11:1274-1276 N '64. (EWA 17:9)

I. Chernovitskiy gosudarstvennyy universitet i Dragobratislavskiy
pedagogicheskiy institut.

ACCESSION NR: AP4041374

S/0048/64/028/008/1048/1050

AUTHOR: Tovstyuk, K.D.; Gavaleshko, N.P.; Raronko, I.M.

TITLE: Galvanomagnetic and thermoelectric effects in HgTe /Report, Third Conference on Semiconductor Compounds held in Kishinev 16 to 21 Sep 1963/

SOURCE: AN SSSR, Izvestiya. Seriya fizicheskaya, v.28, no.6, 1964, 1048-1050

TOPIC TAGS: semiconductor property, galvanomagnetic effect, Hall effect, Nernst-Ettinghausen effect, mercury telluride

ABSTRACT: Electric conductivities, Hall coefficients, magnetoresistivities, and Nernst-Ettinghausen coefficients were measured at temperatures from 80 to 480°K for single crystals and polycrystalline samples of n- and p-type HgTe. Some of the results are presented graphically. The material was produced by fusing spectroscopically pure Hg and Te in evacuated quartz ampoules and subjecting the product to zone refining and prolonged anneal in mercury vapor. This procedure yielded n-type material. Specimens with p-type conductivity were obtained by doping with Ag, Au or Cu. Specimens were obtained having carrier concentrations from 10^{16} to 10^{22} cm^{-3} , and in which the Hall constant changed sign at temperatures from the very lowest to room

Card

1/3

ACCESSION NR: AP4041374

temperature. No measurements were performed at temperatures above 4800K because indications of decomposition were observed at this temperature. When the impurity content was not too great, the resistivity varied with temperature in the manner that is usual for semiconductors. A transition to metallic conductivity was observed with increasing impurity content. The Hall constant increased with decreasing temperature for n-type materials, and for p-type materials it decreased and changed sign. The Hall constant was measured at inductions up to 18 kGs; it varied considerably with induction and in some cases passed through a maximum. This behavior is regarded as suggesting a complex band structure and proving the presence of at least three types of carrier (electrons and two types of hole). The Nernst-Ettinghausen coefficients were positive for p-type materials, and for n-type materials they changed sign between 200 and 2800K and were positive at higher temperatures. The temperature dependence of the effective mass of the electrons was calculated from the thermal emf; the results indicate, in agreement with M.Rodot (Ann.Phys.,Scr.A, No.374,1960) and G.Popovich (Rev.Phys.8, No.3, 1963), that the conduction band is not parabolic. Orig.art.has: 1 formula and 3 figures.

Card
2/3

ACCESSION NR: AP4041374

ASSOCIATION: Chernovitskiy gos. universitet (Chernovits State University)

SUBMITTED: OO

SUB CODE: SS, IC

NR REF Sov: 004

ENCL: 00

OTHER: 006

Card
3/3

L 47340-66	EWP(n)/EWT(t)/ETI	IJP(c)	JD
ACC NR: AR6025755	SOURCE CODE: UR/0058/66/000/004/A075/A075		
AUTHOR: Rarenko, I. M.; Pankevich, Z. V.; Pavlov, R. A.; Semizorov, A. F.	41 B		
TITLE: Development of operating conditions and apparatus for the synthesis and growing of single crystals of $\text{A}^{\text{II}}\text{B}^{\text{V}}$ compounds, using physico-chemical analysis			
SOURCE: Ref. zh. Fizika, Abs. 4A627			
REF SOURCE: Sb. Simpozium. Protsessy sinteza i rosta kristallov i plenok poluprovodnik. materialov, 1965. Tezisy dokl. Novosibirsk, 1965, 32-34			
TOPIC TAGS: single crystal growing, zinc compound, cadmium compound, antimonide, stoichiometry			
<p>ABSTRACT: The possibility of obtaining single crystals of CdSb and ZnSb was investigated. Single crystal p- and n-type CdSb with a carrier density $\sim 1 \times 10^{14} \text{ cm}^{-3}$ at 77K was grown by the Czochralski method, using specially constructed apparatus, in various inert gases at pressures $0.1 - 3 \text{ kg/cm}^2$. The temperature of the melt and of the space over the melt was maintained constant by separate thermal regulators accurate to $\pm 0.05^\circ\text{C}$. A physico-chemical analysis was made of alloys of the Cd-Sb system, with stoichiometric and near-stoichiometric composition, in the temperature interval up to 650°C. Apparatus in which conditions could be created for obtaining single-phase crystals of compounds that melt non-congruently was constructed and used to grow ZnSb crystals. [Translation of abstract]</p>			
SUB CODE: 20			
Card 1/1	pb		

L 15944-66 EWT(m)/ETC(f)/T/EWP(t)/EWP(b)/ENG(m) IJP(c) RDW/JD/JG

ACC NR: AT6002260 (A) SOURCE CODE: UR/2564/65/006/000/0267/0270

AUTHOR: Rarenko, I. M.; Gavaleshko, N. P.

ORG: none

TITLE: Growing of single crystals of A_2B_6 compounds with a narrow forbidden zone
[Paper presented at the Third Conference on Crystal Growing held in Moscow from 18
to 25 November, 1963]

SOURCE: AN SSSR. Institut kristallografi. Rost kristallov, v. 6, 1965, 267-270

TOPIC TAGS: mercury compound, telluride, selenide, single crystal growing, zone melting

ABSTRACT: The compounds HgTe and HgSe were synthesized from the elements and their single crystals were grown by various methods in order to determine the most effective technique of growing the crystals and controlling their stoichiometry. Zone melting of HgTe and HgSe and their solid solutions were carried out by regulating the mercury vapor pressure over the melt and using controlled annealing in mercury vapor in order to obtain low charge carrier concentrations and a high purity. Use of the Bridgman-Stockbarger method produced single crystals up to 25 mm wide and 50 - 60 mm
Card 1/2

33
BT/1

L 15944-66

ACC NR: AT6002260

long. HgSe and HgTe single crystals were also grown from the vapor phase. The apparatus used in both methods (zone melting and vapor phase) is described. Single crystals of HgTe-HgSe solid solutions prepared by zone melting had better characteristics than those prepared by the Bridgman-Stockbarger method, were homogeneous, and up to 40 mm long. The Czochralski method was also employed for growing HgTe single crystals, and was found to be highly effective. Orig. art. has: 2 figures.

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 007 / OTH REF: 003

FW
Card 2/2

L 33755-66 EWT(m)/EWP(t) IJP(c) JD

ACC NR: AP6016054

(A)

SOURCE CODE: UR/0185/66/011/005/0572/0574

AUTHOR: Lashkar'ov, V. Ye.; Malyutenko, V. K.; Rarenko, I. M.; Romanov, V. O.

ORG: Institute of Semiconductors AN UkrSSR, Kiev (Instytut napivprovodnykh AN UkrSSR); Chernovtsi State University (Chernivets'kyi derzhuniversytet)

TITLE: Photoelectric properties of cadmium antimonide

SOURCE: Ukrayins'kyi fizichnyi zhurnal, v. 11, no. 5, 1966, 572-574

TOPIC TAGS: photosensitivity, photoelectric property, cadmium compound, antimonide, photoconductivity, crystal, tellurium, crystal impurity, photoresistance, absorption coefficient, absorption edge, minority carrier, carrier lifetime, temperature dependence

ABSTRACT: The photoelectric properties of N-type CdSb crystals with Te impurities were investigated because the subject has been inadequately researched. The experimental results show that 1) the photoconductivity of the crystals at temperatures from 77 to 130 K is monopolar and the nonequilibrium carriers have substantially different lifetimes, 2) the lifetime of the nonequilibrium holes does not exceed 10^{-7} sec, 3) the temperature dependence of the electron lifetime, the drastic decrease in the electron lifetime with illumination from the self-excitation region, and the

Card 1/2

L 33755-66

ACC NR: AP6016054

saturation of the lux-ampere characteristics with increase in illuminance indicate an adherence of minority carriers, 4) the photoconductivity spectrum shifts to the long-wave side and the photocurrent abruptly increases with decrease in temperature, and 5) the temperature dependence of the absorption coefficient indicates that the absorption edge shifts to the short-wave side during the cooling of the crystal. These results practically agree with those obtained by M. Zavetova (Chekh. fizichn. zh., 14, 615, 1964). The authors thank G. G. Tsybuli for carrying out the measurements. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 17Feb66/ ORIG REF: 007/ OTH REF: 002

Card 2/2 BLG

L 36262-66 EEC(k)-2/REF ID: A61117 JD

ACC NR: AP6018338 SOURCE CODE: GE/0030/66/013/001/0207/0214

AUTHOR: Tovstyuk, K. D.; Bercha, D. M.; Pankevich, Z. V.;
Rarenko, I. M.

30
B

ORG: State University of Chernovtsi, Ukrainian SSR

TITLE: Piezoresistance of cadmium antimonide

SOURCE: Physica status solidi, v. 13, no. 1, 1966, 207-214

TOPIC TAGS: cadmium antimonide, piezoelectric effect, piezoresistance, crystal symmetry

ABSTRACT: A theoretical and experimental investigation of the piezoresistance of p- and n-type CdSb has been carried out. The stress applied along the three crystal axes produced a change in the resistance of the opposite sign. The proposed theory of nonequivalent valley Δ , Λ , and Σ , which follows from the low symmetry of the crystal, explains the observed effects in n-type CdSb, while the theory involving three nonequivalent shifts in valence maximums in r is in good agreement with the experimental results for the

Card 1/2

L 36262-66

ACC NR: AP6018338

p-type CdSb. Orig. art. has: 4 figures and 10 formulas. [Based on
authors' abstract] [NT]

SUB CODE: 20, 11/ SUBM DATE: 20Oct65/ ORIG REF: 007/ OTH REF: 008

sw
Card 2/2

RARO, Ia, S.

M. N. Medish, and Ia. S. Raro "Investigation of Flax Diseases in BSIR in the Years 1929 and 1930," Biulleten' Goretskoi Sel'skokhoziaistvennoi Opytnoi Stantsii, no. 42-44, 1930, 30 pp. Translation B. P. I. 445

SO: Sira Si 90-53, 15 Dec 1953

RABOG, A.M.

First conference on theory and practice for workers of the Central
Stomatological Outpatient Clinic. Stomatologija 36 no.2:76-78
Mr-Ap '57. (MIRA 10:6)
(STOMATOLOGY)

RAROG, A.M.

Modern methods of treatment used in therapeutic stomatology.
Zdrav. Bel. 6 no.11:27-32 N '60. (MIRA 13:12)

1. Iz Tsentral'noy stomatologicheskoy polikliniki, Moskva.
(STOMATOLOGY)

RAROG, G.P.

[Geography club in the school] Geograficheskii kruzhok v shkole.
Moskva, Uchpedgiz, 1954. 52 p.
(MIRA 7:11D)

RAROG, Grigorii Petrovich.

Geography club at school. Iz opyta raboty Novozarinskoi shkoly Krasnodarskogo kraia.
Moskva, Gos. uchebno-pedagog. izd-vo, 1954. 51 p. (55-44525)

1. Geography - Study and teaching - Russia.

RAROG, G.P.

The role of the young naturalist club in organizing socially useful work by the students group. Politekh. obuch. no.10:
57-62 O '59. (MIRA 13:2)

1. Novozarinskaya srednyaya shkola Adlerskogo rayona Krasnodarskogo kraya.
(Student activities)

KAROG, GRIGORIY PETROVICH.

RAROG, Grigoriv Petrovich; VASIL'YEVA, O.S., redaktor; SHIKIN, S.T.,
tekhnicheskij redaktor

[Geography club at school] Geograficheskii kruzhok v shkole. Moskva,
Gos. uchebno-pedagog. izd-vo ministerstva prosveshcheniya RSFSR, 1954.
51 p. (MLRA 8:4)

(Geography--Study and teaching)

RARON, L. I.

Author: Raron, L. I.

Title: The secondary grinding and processing of metal ore. (Vtorichnoe droblenie i vypusk rudy.) 284 p.

City: Moscow

Publisher: State Printing House of Scientific and Technical Literature pertaining to ferrous and non-ferrous metallurgy.

Date: 1950

Available: Library of Congress

Source: Monthly LR of Russian Accessions, Vol. 3, No. 6, Page 385

Call No: TM510.B3

Subject: 1. Ore dressing. 2. Crushing machinery.

RASAJSKI, B. (Beograd)

A short historical review of the development of the theory of
characteristics, and the theory of complete integral.
Ves mat fig Srb no.12:57-76 '60.

1. Cian Uredivackog odbora, "Vesnik Drustva matematicara i
fizicara Narodne Republike Srbije."

RASAJSKI, B.

Rasajski, B. Interprétation géométrique des fonctions caractéristiques des intégrales des caractéristiques d'une équation aux dérivées partielles à deux variables. Glas Srpske Akad. Nauka 206. Od. Prirod.-Mat. Nauka (N.S.) 5 (1953), 3-16. (Serbo-Croatian. French summary)

Verfasser bespricht die Entwicklung der geometrischen Deutungen der Cauchyschen Charakteristikentheorie an Hand der Arbeiten von Monge, Lemonier, A. Mayer, N. Saltykow, P. du Bois Reymond und H. Léauté. Bereits 1876 diskutiert H. Léauté auf analytischem Weg das Anfangswertproblem der allgemeinen partiellen Differentialgleichung erster Ordnung und Cauchy's Formel

$$I = I_0 \exp \left[- \int \frac{z}{P} dx \right].$$

Diese besagt bekanntlich, daß der Ausdruck $I = \partial z / \partial v - p \partial x / \partial v - q \partial y / \partial v$ identisch verschwindet, wenn $I_0 = 0$ (dasselbe gilt für den Ausdruck $\partial z / \partial v - p \partial x / \partial u - q \partial y / \partial u$, in diesem Falle als unmittelbare Konsequenz der Charakteristikengleichungen). Demgegenüber bevorzugt Verfasser geometrische Methoden und gewinnt notwendige und hinreichende Bedingungen, um aus dem allgemeinen Integral des charakteristischen Systems Lagrange's vollständigen Integrale zu erhalten. Unter den (unendlich-vielen) vollständigen Integralen zeichnet Verfasser weiterhin zwei Arten näher aus. Von speziellen Cauchyschen

1
2
Partial

diff. eqn

1/2

RASAJSKI, B.

Problemen werden Integralflächen behandelt, welche
durch die Kurve

$$x = x_0, z = \Phi(y)$$

gehen, von allgemeineren solche, deren vorgegebene An-
fangskurve durch die Gleichungen

$$x = \Phi_1(y), z = \Phi_3(y)$$

bestimmt ist.

M. Pinl (Köln).

2

3/2

Sme

RASAJSKI, B. (Beograd)

On a class of partial differential equations of the second
order of an unknown function with three independent variables.
Ves mat fiz Srb no.11:55-61 '59.

1. Clan Urednickog odbora, "Vesnik Društva matematičara
i fizicara narodne Republike Srbije."

RASAJSKI, B. (Beograd)

The contact linear transformations in the theory of the
Monge-Ampère equations. Ves mat fiz Srb no.12:41-50 '60.

1. Clan Uredivackog odbora, "Vesnik Društva matematičara
i fizicara Narodne Republike Srbije."

RASAJSKI, B.

The Jacobi theorem for the systems of partial equations in the Darboux-Lie involution.
In French.

p. 7 (Bibliografija Jugoslavije) Vol. 8, No. 1/2, 1956, Belgrade, Yugoslavia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

RASAJSKI, B.

"Geometric Interpretation of the Characteristic Functions of Integrals of Characteristics of a Partial Equation with two Independent Variables." p. 3.
(Glas. Vol. 206, no. 5, 1953. Beograd.)

SO: Monthly List of East European Acquisitions, Vol. 3, No. 6, Library of Congress,
Feb. 1954, Unclassified.

RASAJSKI, Bozidar, sanitetski kapetan I klase mr ph

Collection and sending of military food samples for the determination
of caloric values. Voj.san.pregl. 18 no.8:677-678 Ag '61.

(FOOD) (MILITARY MEDICINE)

1. TEREKULOVA, S. A.: RASANOV, A. S.
2. USSR (600)
4. Carotene
7. Role of proteins in regulation of carotene metabolism. Trudy Vses. obshch. fiz. biokhim i farm. no. 1, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

1. RASANOV, A.S. TERECHLOVA, S.A.
2. USSR (600)
4. Proteins
7. Role of proteins in regulation of carotene metabolism. Trudy Vses. obshch, fiz. biokhim. i farm. No. 1 - 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

KIRKACH, Ye.A.; RASAVSKIY, A.F.

Specialization of the production of fastenings in enterprises of the
Donets Economic Council. Mashinostroitel' no.6341 Je '65. (MIRA 18:7)

BROUDE, V. L.; PRIHOTKO, A. F. [Prikhot'ko, A. F.]; RASBA, E. I. [Rashba, Ye. I.]

Some problems of crystal luminiscence. Tr. from the Russian. Analele mat 15 no.4:85-104 O-D '61.

(Crystals) (Luminiscence)

ILIE, Ior; RASCA, Dumitru; CRACIUN, Ion, economist; SIRIOPOL,
Telemac; BARBALATA, Stanciu; CRISAN, Bazil, ing.;
CIRSTOIU, Valentin; GHINEA, Vasile, correspondent

Enthusiastic socialist competition. Constr Buc 16
no. 750:1 23 May '64.

1. The Galati Branch of the Voluntary Editorial Office
of "Constructorul" (for Siriopol, Barbalata).
2. Head of the Department of Production, Regional Trust
for Housing Construction, Hunedoara (for Crisan).

RASCA, Ion, ing.

The Hunedoara hospital construction is advancing. Constr Buc
16 no.745:1 18 Ap '64.

1. Din postul de corespondenti voluntari de la Intreprinderea
de constructii siderurgice, Hunedoara.

RASCA, Ion, ing.

Respecting the terms, an honest task. Constr Buc 16 no.742:
1 28 March 1964.

1. Postul de corespondenti voluntari de la Intreprinderea
de constructii siderurgice, Hunedoara.

RASCA, Gheorghe (Baia Mare)

Stimulating professional perfection. Constr Buc 17 no.783:3
9 Ja '65.

RASCANIN, Stanko

Utilization of railroad freight cars. Zelenice Jug 17 no.11/12:18-22
'61.

RASCANU, N., ing.

Some problems of pneumatic transport of hard ores. Rev min
15 no. 5/6:311-317 My-Je '64.

EXCERPTA MEDICA Sec 18 Vol 3/3 Cardio. Dis. Mar 59

682. Modifications of electrical activity of the heart during effort and fatigue Modificările activității electrice a inimii în timpul efortului și oboselii RASCANU V., BADARAU Gh., BARAN Tr. and CRAUCIU R. Lab. de Fisiol., Inst. de Med., Iasi Rev. med.-chir. 1957, 61/1 (37-47) Graphs 6 Tables 4 Illus. 17

The authors studied on 17 adult subjects the electrical activity of the heart 2-8 min. after work (160-552 kg.-m./min. for 2-6.5 min.). The ECG and vectorcardiogram were recorded in the 3 planes. Modifications of duration and amplitude of the various waves of the ECG and of the aspect of the vectorcardiogram were found in most instances. Mechanical and biochemical factors in the modifications are analysed.

Baciu—Cluj (II, 18)

RUMANIA/Human and Animal Physiology - (Normal and Pathological).
Blood Circulation. Blood Pressure. Hypertension.

Orig Pub : Ref. Ziar Biol., No 4, 1959, 17433

Author : Rascanu, V., Carare, N., Dorogan, D., Baran, Tr.

Inst : Academy of Sciences, RPR

Title : Materials on Pathophysiology of Hypertension: Neurodynamic Disorders in Neurogenic Stage.

Orig Pub : Bul. stiint. Acad. RPR, Sec. med., 1956, 8, No 4, 889-906

Abstract : In patients in a neurogenic stage of hypertension, there were observed a decrease of values of subordinational chronaxy of antagonist muscles, disturbance of their relationship, which reached 9.3, as well as change of correlation of chronaxia of muscles with equal function. These disturbances are induced by increased excitability

Card 1/2

- 46 -

RUMANIA/Human and Animal Physiology - (Normal and Pathological).
Blood Circulation. Blood Pressure. Hypertension.

Abs Jour : Ref Zhur Biol., No 4, 1959, 17488

of the cerebral cortex, which leads to irradiation of the stimulating impulses which reach it. In patients, the plethysmographic reaction changed at the time of voluntary movements (Atanasiu reaction), which reflected the disturbance of cortex-subcortical dynamics. -- I.M. Sheyman

Card 2/2

RASCANU, V., acad; SOLOMON, C.

Contribution to the study of the mutual relations between the electrocardiogram and the cardiac monophasic wave. Rumanian M Rev. no.1:234-239 Ja-Mr '61.

1. Laboratory of Physiology of the Institute of Medicine, Jassy.
Director: Acad. V. Rascanu.

(ELECTROCARDIOGRAPHY experimental)
(RESUSCITATION) (HEART ARREST)

RASCANU, V., acad.; SOLOMON, C.; DOROGAN, D.; ROTARU, C.

Functional modifications during muscular work and fatigue.
Anal St Jassy II 10:1-8 '64.

RASCANU, V., acad.; ROTARU, C.; STEFAN, I.; DRAGAN, Paula

Contributions to the study of the biochemical changes in the blood during hemorrhagic collapse and resuscitation. Rumanian M Rev. no.1: 233-234 Ja-Mr '61.

1. Laboratory of Physiology of the Jassy Institute of Medicine.

Director: Acad. Dr. V. Riscanu.

(HEMORRHAGE experimental) (SHOCK experimental)
(BLOOD chemistry) (RESUSCITATION blood)

RASCANU, V.; CARARE, N.; DOROGAN, D.; HARAN, Tr.

Study of the physiopathology of hypertensive disease: neurodynamic disorders in the neurogenic stage. Bul. stiint., sect. med. 8 no.4: 889-906 Oct-Dec 56.

(HYPERTENSION, pathology
neurodynamic disord., relation to changes in musc. chronaxy)

(MUSCLES, in various diseases

hypertension, changes in chronaxy causing neurodynamic disord.)

RĂSCANU, V.

✓ Physiopathological studies of the hypertonic disease: muscular vasopressor-chemoreceptors. V. Răscănu, N. Cărare, and L. Dorogin. *Acad. rep. populară Române, Bul. științ. Științ. med.* 8, No. 1, 23-35 (1950).—The authors have shown the presence of chemoreceptors in the muscular body, by perfusion of an isolated muscle connected with the rest of the body only by its nerves. The expts. concerned substances from the cycle of biochem. transformations of the organism (acetylcholine, adrenaline, histamine, nicotinic acid, lactic acid, CO₂, KCl). All these substances injected intravenously enhance the arterial tension, while the lactic acid acts as a depressant. Procaine inhibits the action of these substances.
Marthe Arcos

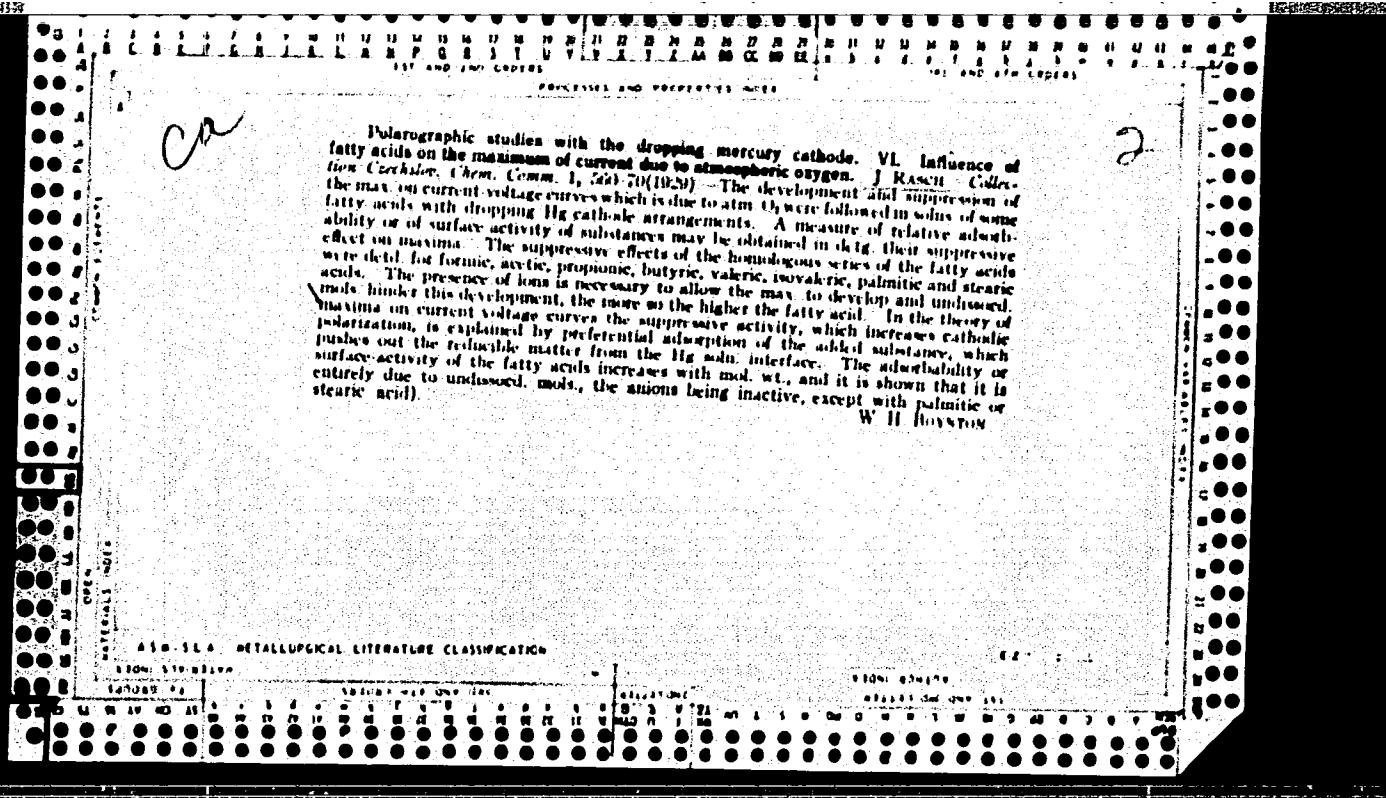
RASCANU, V., Academician; CARARE, N.; DOROGAN, D.

Study of the physiopathology of hypertensive disease: muscle chemoreceptors with vasopressor action. Bul. stiint. sect. med. B no.1:23-35 Jan-Mar 56.

(HYPERTENSION, physiology
musc. chemoreceptors with vasopressor action)

(MUSCLES, innervation
chemoreceptors with vasopressor action, role in
physiopathol. of hypertension)

(NERVE ENDINGS
chemoreceptors of musc., vasopressor action in
physiopathol. of hypertension)



RASCH, R.

"Noise Measurements in Television Transmissions."

"Fernmeldetech." Z(FTZ)5, 44C-4 (Oct. 1952) In German.

SO: SCIENCE ABSTRACTS, Section B, Electrical Engineering Abstracts
(April 1953) Unclass.

RASCHEFF, N. [Rascheev, N.]; ILEFF, N. [Ilev, N.]

Breakage process equation - strain energy factor, and its
determination. Doklady BAN 17 no.4:391-393 '64.

CHUVATOV, V.V.; BEREZIN, N.N.; METSGER, E.Kh.; NAGIN, V.A.; KARTASHOV, N.A., kand. tekhn. nauk, dots.; MIL'KOV, N.V., kand. tekhn. nauk; BYCHKOV, M.I., kand. tekhn. nauk, dots.; SUKHANOV, V.P., SHLYAPIN, V.A.; KORZHENKO, L.I.; ABRAMYCHEV, Ye.P.; KAZANTSEV, I.I.; YARES'KO, V.F.; LUKOYANOV, Yu.N.; DUDAROV, V.K.; BALINSKIY, R.P.; KOROTKOVSKIY, A.E.; PONOMAREV, I.I.; NOVOSEL'SKIY, S.A., kand. tekhn. nauk, dots.; IL'INYKH, N.Z.; TSITKIN, N.A.; ROGOZHIN, G.I.; PRAVOTOROV, B.A.; ORLOV, V.D.; RACHINSKIY, M.N.; KULTYSHEV, V.N.; SMAGIN, G.N.; KUZNETSOV, V.D.; MACHERET, I.G.; SHEGAL, A.V.; GALASHOV, F.K.; ANTIPIN, A.A.; SHAIAKHIN, K.S.; RASCHETAYEV, I.M.; TISHCHENKO, Ye.I.; FOTIYEV, A.F.; IPPOLITO, M.F.; DOROSINSKIY, G.P.; ROZHKOV, Ye.P.; RYUMIN, N.T.; AYZENBERG, S.L.; GOLUBTSOV, N.I.; VUS-VONSOVICH, I.K., inzh., retsenzent; GOLOVKIN, A.M., inzh., retsenzent; GUSELETOV, A.I., inzh., retsenzent; KALUGIN, N.I., inzh., retsenzent; KRAMINSKIY, I.S., inzh., retsenzent; MAYLE, O.Ya., inzh., retsenzent; OZERSKIY, S.M., inzh., retsenzent; SKOBLO, Ya.A., dots., retsenzent; SPERANSKIY, B.A., kand. tekhn. nauk, retsenzent; SHALAMOV, K.Ye., inzh., retsenzent; VOYNICH, N.F., inzh., red.; GETLING, Yu., red.; CHERNIKHOV, Ya., tekhn. red.

[Construction handbook] Spravochnik stroitelia. Red.kollegiia: M.I. Bychkov i dr. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo. Vol.1. 1962. 532 p. Vol.2. 1963. 462 p. (MIRA 16:5)
(Construction industry)

MONAKHOV, V.; RASCHETIN, G.

The reader is not satisfied. Pozh.delo 8 no.6:32 Je '62.
(MIRA 15:6)
(Peat industry—Fires and fire prevention)

MERENYI, Istvan, dr.; RASCHKA, Laszlo, dr.

Pararenal tumors. Magy. sebeszet 8 no.6:385-390 Dec 55.

1. A Budapesti Orvos Egyetem Urologiai Klinikaja kosz.

Igasgato: Dr. Babics, Antal akademikus.

(KIDNEYS, neoplasms

pararenal tumors, etiol. & pathogen. (Hun))

RASCHKA, Laszlo, dr.

PALOCZ, Istvan, dr.; BALOGH, Ferenc, dr.; LINI, Gyula, dr.; RASCHKA,

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001

Use of the artificial kidney on man. Orv hetil 95 no.21:567
My '54. (MEAL 3:8)

1. A Budapesti Urologiai Klinika (igazgato: Babics Antal dr.
egyetemi tanar, akademikus) koslemeye.

(KIDNEYS, artificial

*indic.)

S/048/63/027/031/014/043
B163/B180

AUTHOR: Raschkes, Ya. V.

TITLE: Spectroscopic determination of the isomeric composition of reaction products

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 27, no. 1, 1963, 32-35

TEXT: To determine the isomeric composition of mono-substituted benzene derivatives differing only in the structure of the side chain, spectroscopic analysis is conducted in the range $400-700 \text{ cm}^{-1}$ using the double-beam infrared spectrometer UR-10 with automatically interchangeable prisms. The specimens were in the form of thin liquid films in cells with KBr windows and absorption layers 39 and 72 microns thick, respectively. The spectra of 4 butylbenzene, 2 propylbenzene, 4 amylbenzene, and 4 methylphenylcyclohexane isomers are shown in diagrams, from which it can be seen that there are significant differences between the isomers in the spectral region of $400-700 \text{ cm}^{-1}$. These differences are sufficient

Card 1/2

PROCEDURES AND PROPERTIES INDEX

BC

13

Synthesis of amino-acids by condensation of
ammonium salts with aldehydes and hydrocarbons, gold.
Synthesis of ammonium and ammonium
compounds of aliphatic acids. A. A. Karapetyan,
(Proc. Russ. Chem. Congress, 1929, 8, 61-70).—The
mechanism of the Fischer reaction is discussed, and
an electronic mechanism is proposed. Published
work (this vol., 200) is described. R. T.

ABSTRACT METALLURGICAL LITERATURE CLASSIFICATION

ABSTRACTS

SEARCHED

INDEXED

FILED

SEARCHED

INDEXED

FILED

BC

Application of the cyanohydrin method to the synthesis of substituted-*p*-phenylbenzylcyanides. A. I. Kurnikova and E. A. Radchenko. Zh. Org. Khim., 1967, 7, 1600-1609.
 Preparation of *p*-phenylbenzylcyanide, $\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{CN}$, and various substituted *p*-phenylbenzylcyanides, $\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{CN}$, $\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{CH}_2\text{CN}$, and various substituted $\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{CH}_2\text{CN}$, in eq. 1:100M, yield 2-phenyl-2-methyl-, 2-*p*-nitro-, and 2-*p*-chloro-2-phenylbenzylcyanides. Application of eq. 1:100M, with PCl_5O , NaClO_4 , and CuCl_2 , similarly gives 2-phenylbenzylcyanide, b.p. 170-176/76 mm.; phenylcyanide, m.p. 177°; picrylcyanide, m.p. 181°, with PCl_5O , and $\text{NaNO}_2\text{O}_2\text{H}_2\text{O}$, KCN , and MgCl_2O yields 2-(*p*-nitrophenyl)-2-phenylbenzylcyanide, m.p. 180°.

四

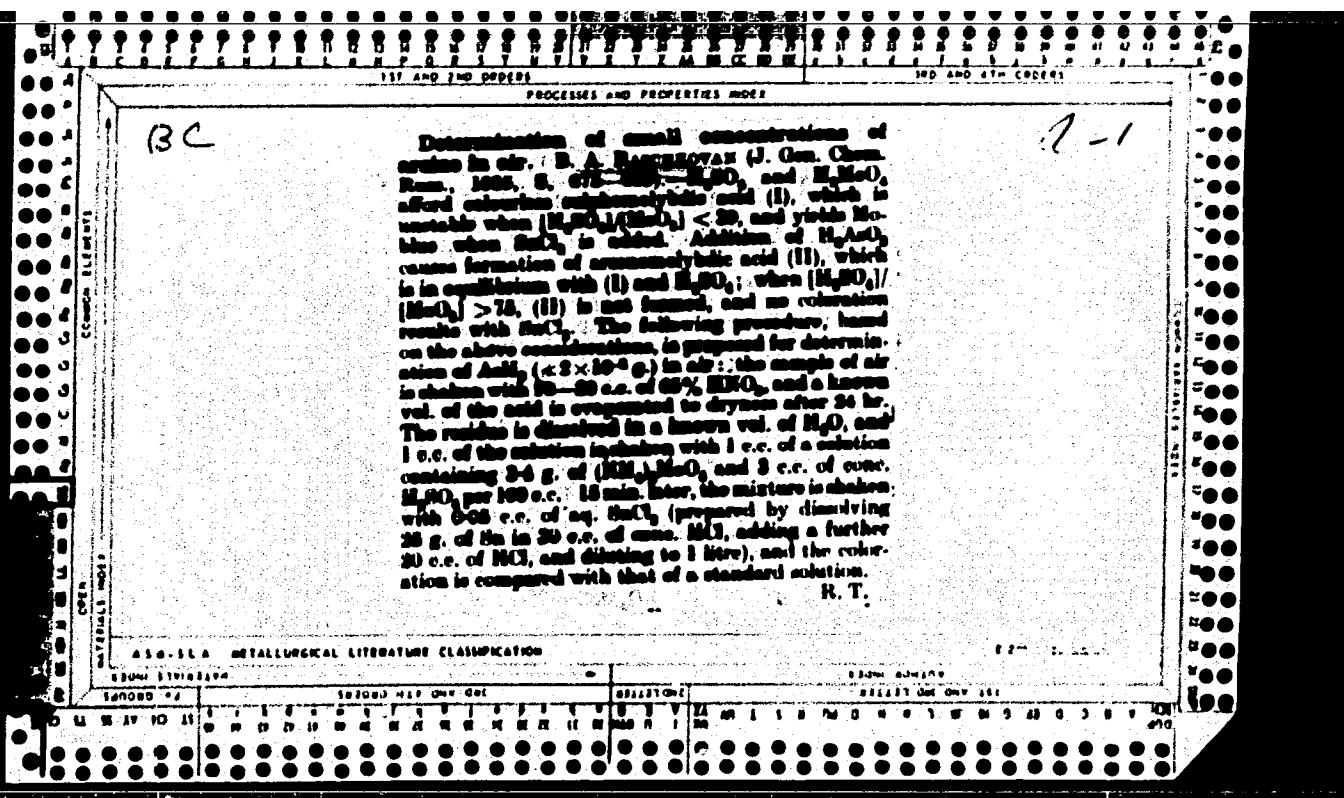
APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

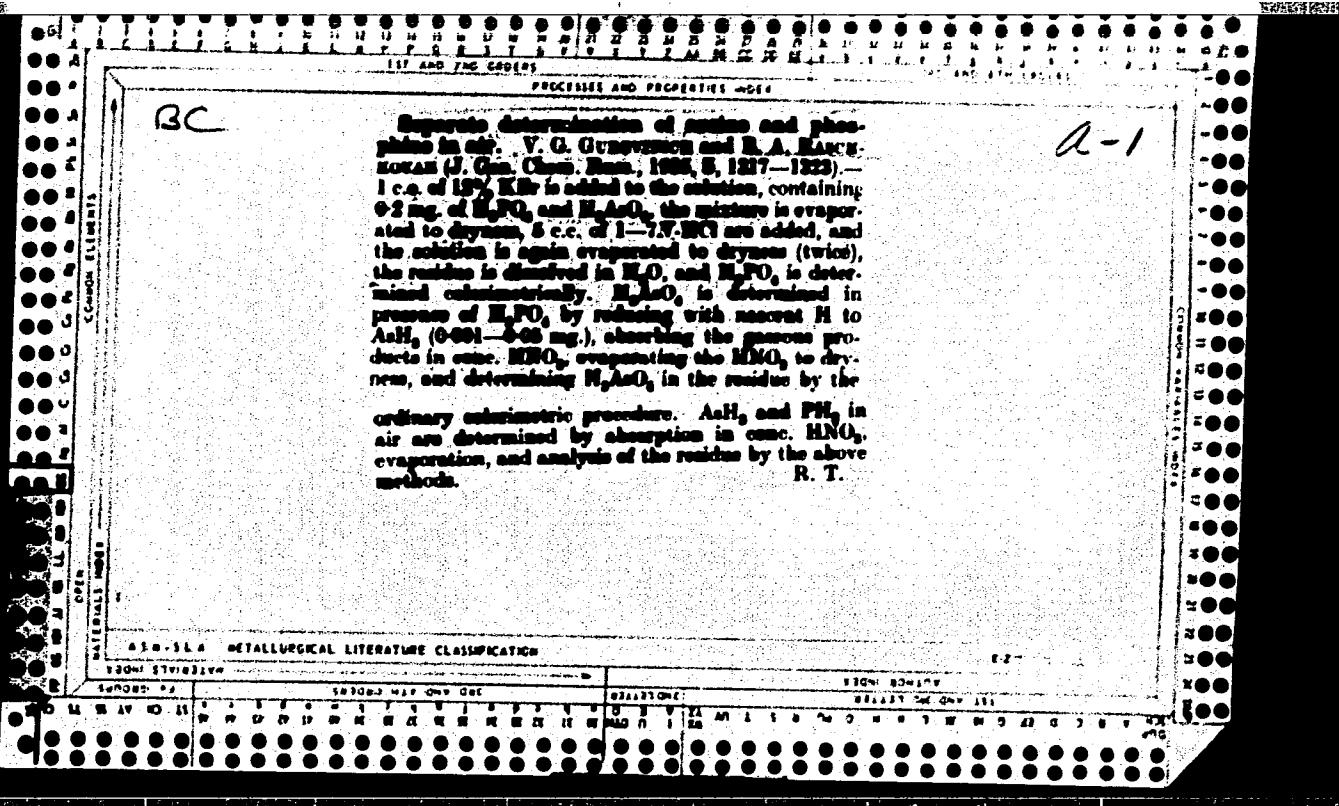
Determination of Cr^{+3} can be carried out by the B. A. Departmental Test (Chemical Society, 1958, 9, 690-694). In this method, Cr^{+3} is oxidized to $\text{Cr}_2\text{O}_7^{2-}$ (I) and $\text{Cr}_2\text{O}_7^{2-}$ is reduced to Cr^{+3} in the presence of the reducing agent, Sn^{+2} . The colour of the product is measured at $600 \text{ m}\mu$ with an optical yield of 100% (B. A.), and the extinction coefficient with the right energy standard is 1.4 (determined); accurate results are obtained for $< 0.04 \text{ mg}$ of (I). An amount of 20 ml of 10^{-6} g. of (I) can be determined by developing the colour in a CuCl_2 instead of an FeCl_3 medium.

B-III-5

410.16.4 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442





Determination of small concentrations of electrolytes by measurement of the strength of the current in closed circuits. I, II. R. A. Rosen. *Anal. J. Gen. Chem. Russ.*, 1929, 6, 285-315.

II (continued).—I. The deflection γ of a galvanometer needle in circuit with Mg and Mg-Cu electrodes in cm. apart in eq. solutions of concn. x , at 20°, is expressed by the empirical equation $\log \gamma/\delta + n = a \log x + C$, where a , b , and C are constants. The concn. of 0.0001–0.0005% AgNO_3 is thus determined, with an error $> +5\%$.

II. The current developed in the above conditions in solutions containing AgNO_3 and an equiv. concn. of K, Na, NH₄, Cu, Sr, Ba, Zn, Co, Ni, or Al nitrate is equal to that which would have been found were the NO_3^- combined with Ag alone. The concn. of the remaining nitrates may be determined from the difference between the val. of γ for the AgNO_3 alone and together with other nitrates. The method is not applicable to Fe and Cu nitrates. R. T.

450-114 METALLURGICAL LITERATURE CLASSIFICATION

13000 17000

14000 15000

16000 17000

18000 19000

20000 21000

22000 23000

24000 25000

26000 27000

28000 29000

30000 31000

32000 33000

34000 35000

36000 37000

38000 39000

40000 41000

42000 43000

44000 45000

46000 47000

48000 49000

50000 51000

52000 53000

54000 55000

56000 57000

58000 59000

60000 61000

62000 63000

64000 65000

66000 67000

68000 69000

70000 71000

72000 73000

74000 75000

76000 77000

78000 79000

80000 81000

82000 83000

84000 85000

86000 87000

88000 89000

90000 91000

92000 93000

94000 95000

96000 97000

98000 99000

100000 101000

102000 103000

104000 105000

106000 107000

108000 109000

110000 111000

112000 113000

114000 115000

116000 117000

118000 119000

120000 121000

122000 123000

124000 125000

126000 127000

128000 129000

130000 131000

132000 133000

134000 135000

136000 137000

138000 139000

140000 141000

142000 143000

144000 145000

146000 147000

148000 149000

150000 151000

152000 153000

154000 155000

156000 157000

158000 159000

160000 161000

162000 163000

164000 165000

166000 167000

168000 169000

170000 171000

172000 173000

174000 175000

176000 177000

178000 179000

180000 181000

182000 183000

184000 185000

186000 187000

188000 189000

190000 191000

192000 193000

194000 195000

196000 197000

198000 199000

200000 201000

202000 203000

204000 205000

206000 207000

208000 209000

210000 211000

212000 213000

214000 215000

216000 217000

218000 219000

220000 221000

222000 223000

224000 225000

226000 227000

228000 229000

230000 231000

232000 233000

234000 235000

236000 237000

238000 239000

240000 241000

242000 243000

244000 245000

246000 247000

248000 249000

250000 251000

252000 253000

254000 255000

256000 257000

258000 259000

260000 261000

262000 263000

264000 265000

266000 267000

268000 269000

270000 271000

272000 273000

274000 275000

276000 277000

278000 279000

280000 281000

282000 283000

284000 285000

286000 287000

288000 289000

290000 291000

292000 293000

294000 295000

296000 297000

298000 299000

300000 301000

302000 303000

304000 305000

306000 307000

308000 309000

310000 311000

312000 313000

314000 315000

316000 317000

318000 319000

320000 321000

322000 323000

324000 325000

326000 327000

328000 329000

330000 331000

332000 333000

334000 335000

336000 337000

338000 339000

340000 341000

342000 343000

344000 345000

346000 347000

348000 349000

350000 351000

352000 353000

354000 355000

356000 357000

358000 359000

360000 361000

362000 363000

364000 365000

366000 367000

368000 369000

370000 371000

372000 373000

374000 375000

376000 377000

378000 379000

380000 381000

382000 383000

384000 385000

386000 387000

388000 389000

390000 391000

392000 393000

394000 395000

396000 397000

398000 399000

400000 401000

402000 403000

404000 405000

406000 407000

408000 409000

410000 411000

412000 413000

414000 415000

416000 417000

418000 419000

420000 421000

422000 423000

424000 425000

426000 427000

428000 429000

430000 431000

432000 433000

434000 435000

436000 437000

438000 439000

440000 441000

442000 443000

444000 445000

446000 447000

448000 449000

450000 451000

452000 453000

454000 455000

456000 457000

458000 459000

460000 461000

462000 463000

464000 465000

466000 467000

468000 469000

470000 471000

J.R. Alt.

AJ-X Analysis

Determination of small concentrations of electrolytes by a galvanic method. I. A. Kaschkoval (Zaved. Lab., 1960, 2, 728-731). The solution is placed between a Hg cathode and an anode of amalgamated Cu, and the current in the external circuit measured. The method is applied to the determination of HCl and of $\text{p-Sn}(\text{CO})_2\text{C}$ in air.

J.J.P.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001344

RASCHOVSZKY, L.

Electrical relations of electrostatic separators. Periodica
polytechn eng 7 no.3:249-258 '63.

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0013442

ANDO, Jeno; MATEFFY, Sandor; VEN, Mihaly; SEVESTYEN, Endre;
FELKAI, Aurel; GERVAI, Zoltan; MAIER, Laszlo; GREGOR, Aladar;
RASCHOVSZKY, Lajos; SZELES, Lajos; BEKE, Gyula

Remarks on the article "The most important problems of
technical development of electric installations in industrial
plants and tasks for the manufacturing industry related to this.
Villamossag 9 no.1/3:42-46 Ja-Mr '61.

1. A Villamos Eloszerelo Vallalat formernoka (for Ando).
2. A Koho-es Gepipari Miniszterium Tervezo Irodai villamos
tervezesi osztalyanak vezetoste (for Mateffy). 3. A Villamos
Allomasszerelo Vallalat formernoka (for Ven and Felkai).
4. Vegyimuveket Tervezo Vallalat (for Sebestyen). 5. Konnyuipari
Tervezo Iroda (for Gervai). 6. E.M. Tipustervező Intezet (for
Gregor). 7. E.M. Ipari es Mezogazdasagi Tervezo Vallalat
(for Raschovszky). 8. Orszagos Villamosenergia Felugyelet
(for Szeles). 9. Orszagos Villamosenergia Felugyelet (for
Beke).

PASCHKEWITSCH, A.

"Diode modulator for frequency modulation"

Frequenz, 7, 49-53 (Feb., 1953)

SOURCE: SCIENCE ABSTRACTS, Section B, Electrical Engineering Abstracts, (June 1953), Unclassified.

HUNGARY/Chemical Technology. Chemical Products and Their Application. Chemical Engineering H-2

Abs Jour : Ref Zhur - Khim. 1958, No 24, No 81835

Author : Raschovszki L.

Inst :
Title : Purification of Gases in the Electrostatic Field

Orig Pub : Epuletgepezet, 1958, 7, No 1, 24-35

Abstract : The basic principles involved in the operation of electrostatic filters are discussed. Fields of their specific application and the latest models are reviewed. Bibliography includes 23 names. -- D. Pyushpcki.

Card : 1/1

1

RASCHTSCHEKTAEV, I. N.
E. I. VUL, ZhTF 1934, 4, 299-306

RASCHYENKO, S.I.

30391

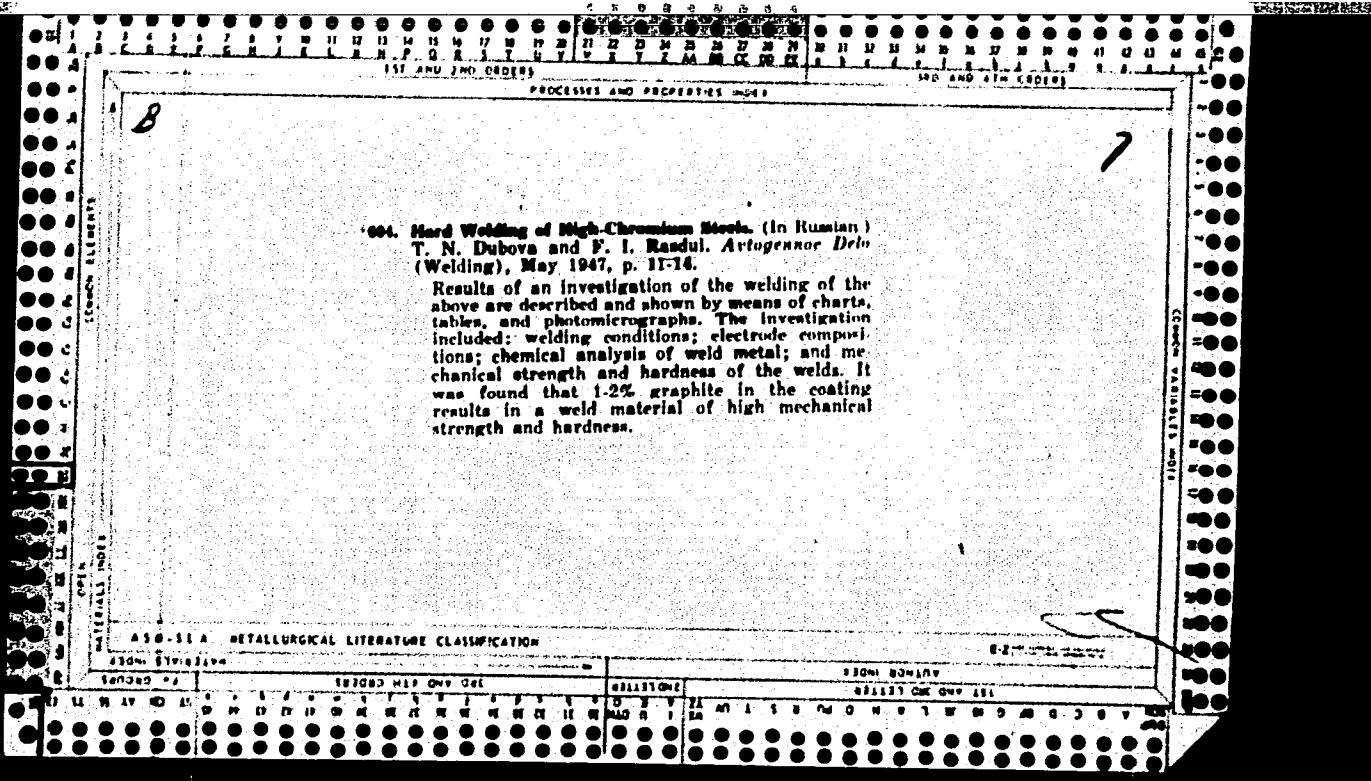
Novcye v morfogenyeyeze czimykh zlakov. Trudy in-ta Fiziolgii rasteniy im. Timiryazyera,
t. VI, vyp. 2, 1949, s. 210-12

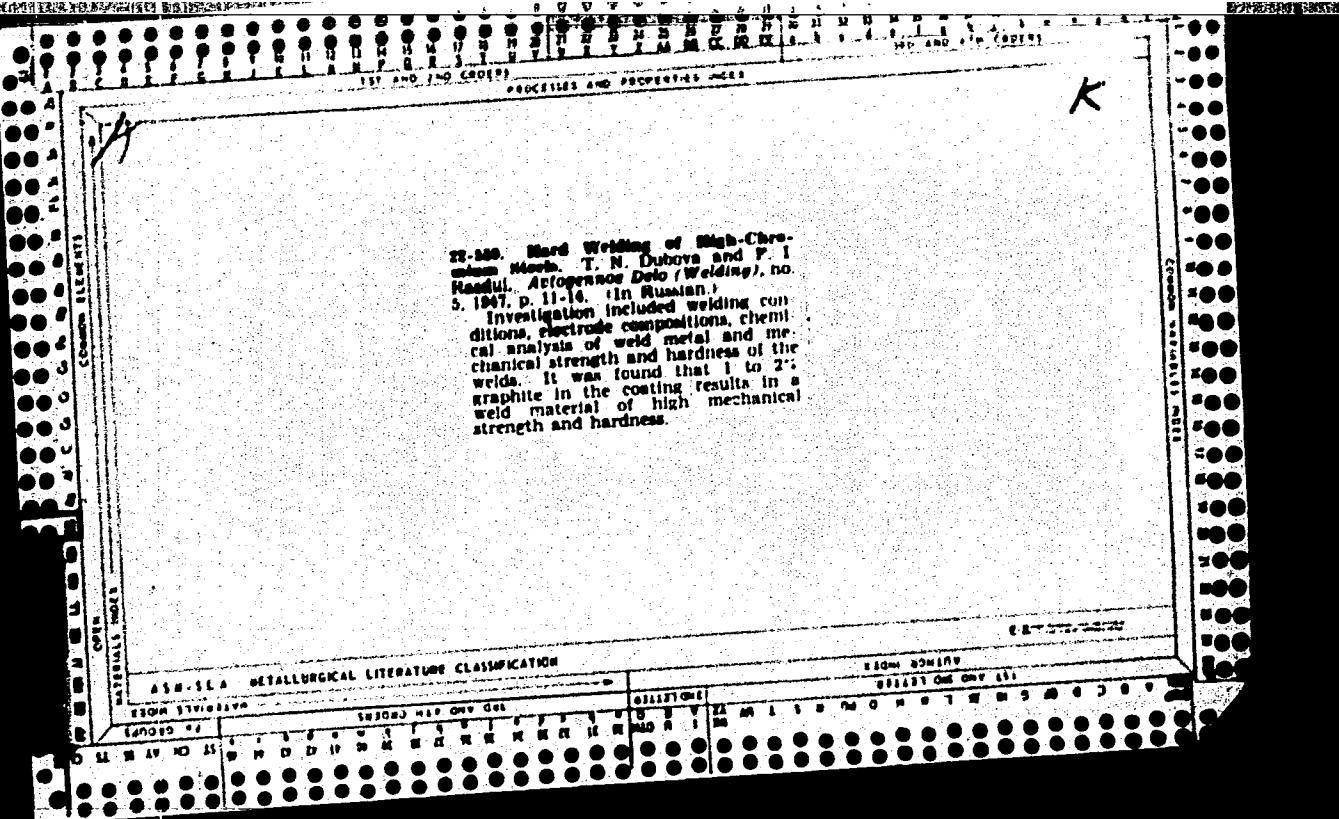
SC: LETCPIS' No. 34

RASDORSKY, V. F.

"Allelopathy in plants." (p. 549) by V. F. Rasdorsky

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologii) Vol. XIV, No. 3, 1941





- PHASE 14
- Belgrade, Acta Veterinaria, Vol. 11, No 2, 1981
1. "Polymerase Polymerase by Use of Micro-Waves"; J. L. JAKOBIC, D. PAPIC, A. JURKOVIC, M. S. SOKOLOVSKI, Institute for Veterinary and Institute of Veterinary Research, Belgrade; pp 8-13.
 2. "Effect of Keatol on Tissue Uptake by the Thyroid"; N. KERIMIĆ, O. ČOMIĆ, V. ĐANIĆ, Institute of Veterinary Research, Veterinary Faculty, Belgrade (English Summary) pp 6-13.
 3. "Enzymatic System of Liver in Calfus Infectious Disease"; O. JAKOBIC, D. PAPIC, N. JAKOBIC; Agricultural Institute, Belgrade; pp 11-17.
 4. "Immunizing Chickens Against Newcastle Disease by Administering Vaccine in the Intramuscular (Intra-muscular) Route"; V. ĐANIĆ, D. PAPIC, N. JAKOBIC, Š. ŠARIĆ, People's Republic of Croatia and the Department of Veterinary Faculty, Belgrade; (English Summary) pp 33-35.
 5. "Bacteriological Survey of Cattle Area of Raška and Šumadija-Gacka"; M. SOKOLOVSKI; Institute of Veterinary Research, Belgrade; pp 37-46.
 6. "Transmission of Nasal Trichomoniasis of Pigs to the Gestational Tract of Cows and Sheep"; M. SOKOLOVSKI; Obstetrics Clinic, Veterinary Faculty, Belgrade; (English Summary) pp 45-50.
 7. "Effect of Injecting Venous Outflow of Urine Water on the Function of the Gland"; D. PAPIC, M. SOKOLOVSKI and Toxicological Veterinary Faculty, Belgrade; (English Summary) pp 51-58.
 8. "Effect of Ultrasound and Some Antiseptics on Trichomonas vaginalis and Eggs of Toxocara canis"; A. MUSOVIĆ; Institute of Parasitic Diseases, Belgrade; pp 59-70.
 9. "Varval Forms of Diseases in River and Lake Shells in Serbia"; B. K. MILOŠ; Parasitology Institute, Novi Sad
- 32
30

CIA-RDP86-00513R001344

Salinity. Lett. **12**, no. 2, 1961 (continued)

卷之三

20. "Electrophysiological Changes in Averalls of Pigeons, *C. C. R.*, at the Physiological Institute, Petermann Faculty, Breslau, No. 14-153

J. B. Smith as Senator, R. T. Morris as Postmaster-General, J. M. Gandy as
Postmaster, W. H. McRaven as Collector of Internal Revenue, W. C. Gandy as
Treasurer, W. H. McRaven as Auditor, W. H. McRaven as Comptroller, W. H. McRaven
as Collector of Customs, W. H. McRaven as Collector of Internal Revenue, W. H.
McRaven as Collector of Internal Revenue, W. H. McRaven as Collector of Internal
Revenue, W. H. McRaven as Collector of Internal Revenue.

二

三〇

RASHAEV, D.

RASHAEV, D., inzh., prof.

Diagram of isothermal transformations in heating spheroidal graphite cast iron. Metalloved. i obr. met. no.10:5-10 0 '58.
(MIRA 11:10)

1. Institut nefti, gaza i geologii, Bukharest.
(Cast iron--Heat treatment) (Phase rule and equilibrium)

RASEEV, D., ing.

Studying the wear of extraction pumps. Petrol si gaze 14
no.91428-437 S'63.

RASEEV, D.; MARCU, M.

Experimental studies for improving the operation of
chain drives. Bul Inst Petrol Rum 9: 143-153 '63.

RHSEEV, D.

Distr: 4E2c(1)/4E2c(m) 18

Isothermal transformations in solid cast irons with nodular graphite. V II. Isothermal transformation diagram on heating. M. Ruseev. *Lucrurile inst. petrol. si gaze Bucuresti* 5, 301-11 (1959); *ibid.* 4, 176 (1958).—The isothermal transformations diagram obtained by heating nodular-graphite cast iron (C 2.7, Si 2.7, Mn 0.2, P 0.2, S 0.03%, with initial ferrite and pearlite structure) has been prepared by using published data (*loc. cit.*). The diagram gives phases of transformation which occur during isothermal heating and maintaining of the cast iron with various initial structures at various temps. in the interval 650-950°C., i.e., the graphitization of pearlite, transformations in the eutectoid interval, transformations of austenite formation, and primary cementite decomprn. The diagrams were plotted by using the microstructure and hardness methods. These diagrams may be used for the correct prescription of the usual heat-treatments applied to nodular-graphite cast irons, i.e., hardening, ferritization, obtaining a desired pearlite-ferrite proportion, normalization, and decomprn. annealing of the primary cementite. Corrections have to be made for the dimensions of the pieces, the mode of heating, and the furnace, since the transformations start during heating. M. Lepistot

///

400

4
1-*JAFGK*
1-*MFCGTD*

2

RASEEV, D.

Study of some optimum couplings of case and piston in extraction pumps;
laboratory tests. p.927

STUDII SI CERCETARI DE MECHANICA APPLICATA. Academia Republicii Populare Romine
Bucuresti, Rumania
Vol. 10, no.3, 1959

Monthly List of East European Accessions (EEAI) LC., Vol. 9, no.1, Jan. 1960
Uncl.

RASEEV, D.

RASEEV, D.; ANTONESCU, N.; COMEAGA, M.

RASEEV, D.; ANTONESCU, N.; COMEAGA, M. Hardenability of steel 40C10 and
40CN12 with the application of heat treatments to special joints of drill
pipes. p. 21.

Vol. 8, no. 12, Dec. 1956
METALURGIA SI CONSTRUCTIA DE MASINI.
TECHNOLOGY
RUMANIA

So: East European Accession, Vol. 6, No. 5, May 1957

RASEEV, D.

AUTHOR: Raseev, D., Engineer; Professor [Bucharest] SGV/129-58-13-2/14

TITLE: Diagram of the Isothermal Transformation During Heating
of Cast Iron with Spheroidal Graphite (Diagramma
izotermicheskogo prevrashcheniya pri nagreve chuguna s
globulyarnym grafitom)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 10,
pp 5-10 (USSR)

ABSTRACT: Paper presented on October 31, 1957 at the Scientific
Session of the Institute for Oil, Gas and Geology,
in Bucharest.

The author describes general diagrams of isothermal
transformation during heating of spheroidal iron. For
such an iron, containing 2.7% C, 2.7% Si, 0.2% Mn, 0.2% P,
0.03% S, the author obtained diagrams which describe the
isothermal transformation of the individual phases in
various temperature ranges by means of the microscopic
and the hardness methods. On the basis of these data,
generalised diagrams were compiled of the isothermal
transformations during heating of spheroidal iron with an
initial pearlitic structure (Fig.1) or a ferritic structure
(Fig.2). The transformations graphed in the diagrams, are
Card 1/3 applicable in principle also for pearlite-ferrite initial

SCV/129-58-10-2/14

Diagram of the Isothermal Transformation During Heating of Cast Iron with Spheroidal Graphite

structures (Fig.3). In the diagrams the graphitisation of pearlite, the transformations in the eutectoidal range, the transformations during the formation of austenite and during decomposition of the initial cementite are indicated. Curves of the beginning and the end of the transformations are also given. The curves of partial transformations are entered only in the diagrams of isothermal transformations for heating of irons with an initially pearlitic or an initially ferritic structure (Figs.1 and 2). The first part deals with the characteristics of the transformations which are plotted in the diagrams; the second part deals with utilising these diagrams for working out heat treatment regimes, i.e. annealing for obtaining a ferritic structure, annealing for obtaining a desired pearlite to ferrite ratio, hardening and normalisation annealing and annealing for the purpose of decomposing the primary cementite. Examples

Card 2/3

SOV/129-58-10-2/14

Diagram of the Isothermal Transformation During Heating of Cast Iron with Spheroidal Graphite

are included which are intended to show that the diagrams can be utilised for practical purposes.

There are 4 figures and 2 references, 1 of which is Soviet, 1 Roumanian.

ASSOCIATION: Institut nefti, gaza i geologii (Bukharest)
(Institute for Oil, Gas, and Geology, Bucharest)

1. Cast iron—Transformations
2. Cast iron—Analysis
3. Graphite—Metallurgical effects

Card 3/3

36458
S/137/62/000/003/159/191
A052/A101

1,1800

AUTHOR: Raseev, D.

TITLE: The kinetics of carbon steel siliciding

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 101, abstract 3I656
("Studii și cercetări metalurgie Acad. RPR", 6, no. 2, 1961, 161-170,
Rumanian; Russian, English summaries)

TEXT: The study of kinetics of electric siliciding and of siliciding in a solid granular medium is carried out on OLC 10 and STAS 880-49 steels. The current density at electric siliciding is 0.6 a/cm², the siliciding temperature is 1,000, 1,070, 1,100 and 1,150°C, the holding time is 1, 2, 3, and 4 hours. It is established that electric siliciding is a diffusion process, which can be described with a fair accuracy (when electrolyte 3 SiO₂Na₂O + 4.7 NaF is applied and the current density is 0.6 a/cm²) by the following relation $y^2 = 7.5 \cdot 10^{-4} e^{17000/RT} \cdot t$, where y stands for the thickness of silicided layer depending on the siliciding time t. The mechanism of siliciding process is considered and the cause of pore formation is established. There are 10 references.

A. Babayeva ✓

[Abstracter's note: Complete translation]

Card 1/1

RASEEV, D.

Scientific research for the extension of material bases for the production of special cast iron. p. 207. Academia Republicii Populare Romane. ANALELE. Bucuresti. Suppl. to v. 3, 1955.

SOURCE: East European Accessions List (EEAL) Library of Congress.
Vol. 5, no. 9, Sept. 1955

RASEEV, D.

"Certain problems regarding the kinetics of isothermal transformations, in a solid state, of nodular-graphite cast iron; graphitization, formation of austenite, decomposition of perlite."

p. 241 (Studii Si Cercetari De Metalurgie) Vol. 2, no. 3, 1957
Bucharest, Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

RASEEV, DUMITRU.

Perlite pig iron with lamellate and nodular graphite in machine construction.
illus., bibl.
(EDITURA TEHNICA, 1953. 349 p., Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.
Uncl.

RASEEV, S.

RUM.

Thermodynamic study of the alkylation of benzene with propene. S. Raseev and L. Ornstein. Rev. chim. (Bucharest) 1954, 5, 525-31(1954). A study of the vapor-phase system

$2\text{C}_6\text{H}_6 + 5\text{C}_2\text{H}_4 \rightleftharpoons \text{PhC}_6\text{H}_5 + \text{C}_6\text{H}_5(\text{C}_2\text{H}_5)_2 + \text{C}_8\text{H}_{10}$, at various temp., pressures, and ratios, shows pressure to have some effect on the equil. at an equimol. ratio but that it becomes smaller as the $\text{C}_6\text{H}_6:\text{C}_2\text{H}_4$ ratio increases. Conversions are not extensive at temps. below 350°. Gerard Ausleger

C
H ①

AP-504

~~RASEEV, S. D.~~

RUMANIA/Chemical Technology - Chemical Products and Their
Application - Treatment of Natural Gases and
Petroleum. Motor and Rocket Fuels. Lubricants.

H-23

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, 9325
Author : Raseev S., Constantinescu Al.
Inst : Bucarest Institute of Petroleum and Gas.
Title : Increasing the Stability of Transformer Oils Produced
from Rumanian Petroleum.
Orig Pub : Studii. Inst. petrol si gaze Bucuresti, 1955, No 1, 63-85
Abstract : It is shown that treatment of transformer oil (after neutralization) with 1% solution of Na_2SiO_3 and addition of 0.01% p-hydroxydiphenylamine increase substantially its stability. Considered in detail are the chemism, mechanism and kinetics of aging of transformer oil under conditions of its use.

Card 1/1

RAGEJEV, S.

Development of the petroleum industry of Rumania. p. 47
(GLASNIK, NO. 25/26, 1956)

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

b7f

Computation method for calculation of chemical equilibrium. Sergiu D. Răucev. Lucrările inst. petroli și gaze
Dicționar de termeni (1967). A development of the computation method for the evaluation of thermodynamic feasibility of a reaction, described in a former paper (C.A. 52, 7824c), is presented. Relations correcting for the equil. curves according to the variations with temp. of heat of formation and entropies, as well as the deviation from ideal gas and soin. laws, are given. R. D. Slaniceanu

3

RASEEV, S.D.

The determination of the possibility of achievement of chemical reactions and the calculation of chemical equilibrium. I. S. D. Raseev (Oil and Gas Inst., Bucharest). Acad. rep. populare Române, Studii cercetări chim. 5, 267-84 (1957).—The condition $\Delta F^\circ \leq 0$, where ΔF° is the standard free energy, is not a satisfactory criterion for detg. whether a chem. reaction is thermodynamically possible. Two new criteria are proposed: (a) the condition $x > 0.5$, where x is the degree of conversion at equil.; for which an excess of products is formed in the reaction zone and the limit of which, $x = 0.5$, is called "the change in the direction of the reaction"; and (b) the condition $x > x_{\text{max}}$, called "the limit of the practical possibility of achievement of the reaction", where x_{max} is arbitrarily chosen according to the reaction studied. A new method permitting a rapid computation of the domain of temps. and pressures in which these conditions are fulfilled and applicable to both the gas and liquid phase is described. The method consists in plotting straight lines of $1/T$ vs. $\log P$, where T is the abs. temp. and P the pressure of the system; by using coeffs. that depend on stoichiometry only. Variations in the standard enthalpies and entropies of formation with temp. and deviations from ideal gas and solns. laws are neglected. Examples are given. II. Ibid. 285-98.—A method of calcg. chem. equil. described in part I is extended. Relations are derived for correcting the equil. curves for variations in the enthalpies and entropies of formation with temp. and for deviations from the ideal gas and soln. laws. Examples are given. S. Alexander Stern

~~RASEEV, S.D.~~ RASEEV, S.D.

HUMANIA/Chemical Technology. Chemical Products and Their Application.
Treatment of Natural Gases and Petroleum Motor and Rocket
Fuels. Lubricants.

H-23

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15752.

Author : Raseev S, Hoffman S.

Inst : Bucharest Institute of Petroleum and Gas

Title : Study of Selective Purification with Furfurol of Oils Derived
from Romanian Paraffinic Petroleum.

Orig Pub: Lucrarile inst. petrol. si gaze Bucuresti, 1957, 2, No 2,
149-169.

Abstract: For oils -- light, medium, and heavy -- derived from paraffinic petroleum of the Taintya-Baykoy-Floreshti [transliterated Russian spelling] deposit, a study was made of the effect of temperature and furfurol: oil ration on the yield and quality of the refined product. Graphs have been plotted for the selection of optimal conditions of purification. The authors pro-

Card : 1/2

HUMANIA/Chemical Technology. Chemical Products and Their Application.
Treatment of Natural Gases and Petroleum Motor and Rocket
Fuels. Lubricants.

H-23

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15752.

pose to express the degree of selectivity of purification by the correlation $\frac{[(C_A)_u - (C_A)_R]}{(C_A)_u} \cdot U_R \cdot 100 / (C_A)_u$, wherein $(C_A)_u$ is the percent of aromatic C-atoms in the initial oil, according to ring analysis, $(C_A)_R$ -- same in the refined product, U_R -- yield of refined product.

Card : 2/2

RUMANIA / Chemical Technology. Chemical Products and H-2
Their Application--Chemical Engineering

Abs Jour: Ref. Zhur--Khimiya, No 3, 1959, 8470

Author : Raseev, S. D., Feyer-Hoffman, S., Valter, P.,
Verman, L.

Inst : Not given

Title : Hydrodynamics of a Pseudo-liquified Layer. I. Theoretical Conclusions on the Ratio between Velocity of Liquid or Gas and the Volume Density of the Solid Particles in a Pseudo-liquified Layer. II. Experimental Verification of the System of Noncompressible Liquid--Homogeneous Solid Particles in the Absence of a Constant Influx of Particles into the Layer

Orig Pub: Studii si cercetari chim., 1957, 5, No 4, 569-579;
581-609

Card 1/3

RUMANIA / Chemical Technology. Chemical Products and H-2
Their Application--Chemical Engineering

Abs Jour: Ref Zhur--Khimiya, No 3, 1959, 8470

Abstract: I. Theoretical equations are developed: for the case where there is no constant introduction of solid particles into the pseudo-liquified layer $V_p = V [1 - b(yv/ya)^{2/3}]^{-1}$; for the case where solid particles are constantly introduced into the pseudo-liquified layer, $V_p = V_b [1 - b(yv/ya)^{2/3}]^{-1} + ay_0/y_v$. In the equations, V_p is velocity of particle movement, V_b is linear velocity of gas or liquid carried over the entire cross-section of the apparatus, y_v is volume density of solid particles in the pseudo-liquified layer, ya is apparent density of the solid particles layer, y_b is the density of the liquid or gas, a is the ratio of weight consumption of solid bodies and liquid, b is the

Card 2/3

104

RUMANIA / Chemical Technology. Chemical Products and II-2
Their Application--Chemical Engineering

Abs Jour: Ref Zhur--Khimiya, No 3, 1959, 8470

coefficient of particles forms. In the second equation, the minus sign refers to the situation in which solid particles are constantly introduced into the lower part of the apparatus and are removed from the upper; the plus sign refers to the opposite condition. Considerations are given as to the possibility of applying the given equations, providing the chemical reactions occur in the gaseous phase. II. Experimental verification of the stated equations which conformed satisfactorily with experimental data. --Author's abstract.

Card 3/3